

Title (en)

Motor controller, washing machine, air conditioner and electric oil pump

Title (de)

Motorregler, Waschmaschine, Klimaanlage und elektrische Ölpumpe

Title (fr)

Contrôle de moteur, machine à laver, conditionneur d'air et pompe à huile électrique

Publication

EP 1748544 A2 20070131 (EN)

Application

EP 06015777 A 20060728

Priority

JP 2005219867 A 20050729

Abstract (en)

A motor controller (1, 1b) capable of suppressing a large speed change generated at the time of changeover from a synchronous operation mode to a position feedback operation mode and implementing even acceleration characteristics regardless of the load torque (\hat{A}) by estimating a torque of a permanent magnet motor (6) in the synchronous operation mode for driving the permanent magnet motor and setting an initial value of a current command value in a position sensor-less operation mode on the basis of information of the torque estimated value (\hat{A}^{\wedge}).

IPC 8 full level

H02P 6/18 (2016.01); **H02P 6/06** (2006.01); **H02P 6/08** (2016.01); **H02P 6/182** (2016.01)

CPC (source: EP US)

H02P 6/20 (2013.01 - EP US); **H02P 21/22** (2016.02 - EP US)

Cited by

EP2114006A3; EP2377237A4; EP2264887A4; WO2023147819A1; US8970146B2; WO2010055168A3

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DE FR GB

Designated extension state (EPC)

AL BA HR MK RS

DOCDB simple family (publication)

EP 1748544 A2 20070131; **EP 1748544 A3 20090729**; **EP 1748544 B1 20110921**; CN 100590961 C 20100217; CN 101662251 A 20100303; CN 101662251 B 20120523; CN 1905351 A 20070131; EP 2197102 A1 20100616; EP 2197102 B1 20150909; JP 2007037352 A 20070208; JP 4729356 B2 20110720; US 2007024232 A1 20070201; US 7619385 B2 20091117

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EP 06015777 A 20060728; CN 200610107667 A 20060728; CN 200910173502 A 20060728; EP 10000799 A 20060728; JP 2005219867 A 20050729; US 49460106 A 20060728